

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L7	1855	Resonator same (VCO or (voltage adj controlled adj oscillator))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/03 07:42
L8	512162	(high adj frequency) or (high-frequency)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/03 07:31
L9	811	L7 and L8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/03 07:31
L10	89748	radar	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/03 07:31
L11	92	L9 and L10	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/03 07:31
L12	0	L11 and @ad<="20030314" and @pd>="20060109"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/03 07:39
L13	4349	((342/175) or (342/70-73) or (342/89-103)).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/03 07:39
L14	8	L13 and @ad<="20030314" and @pd>="20060109"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/03 07:39

## EAST Search History

L15	1	((Resonator same (VCO or (voltage adj controlled adj oscillator))) and radar and ((high adj frequency) or (high-frequency))).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/03 07:48
L16	322	kato-takatoshi.inv.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/03 07:48
L17	857	ishii-toru.inv.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/03 07:48
L18	72	nakamura-fuminori.inv.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/03 07:49

# SEARCH NOTES FOR EAST AND IEEE AND INSPEC AND IP.COM

SERIAL NUMBER

10757591

## EAST SEARCH

EAST: search history attached

## IEEE SEARCH

Search terms:

Resonator <AND> (VCO <or> (voltage <AND> controlled <AND> oscillator)) <AND> ((high <paragraph> frequency) <or> (high-frequency)) <AND> (radar <or> radio)

**1. The further development of internally heated quartz resonators and the oscillators on their basis for use in up-to-date search-and-rescue and communication systems**

Vorohkovsky, Y.L.; Petrosian, I.G.; Drakhlis, B.G.; Volkov, A.A.

Frequency Control Symposium, 1992. 46th., Proceedings of the 1992 IEEE 27-29 May 1992 Page(s):505 - 512

**2. A wideband SAW resonator and its application to a VCO for mobile radio transceivers**

Hikita, M.; Sumioka, A.; Tabuchi, T.

Vehicular Technology, IEEE Transactions on Volume 43, Issue 4, Nov 1994 Page(s):863 - 869

**3. Highly accurate spurious-free integrated VCO resonator in a GSM transceiver using circuit-package co-design**

Jenshan Lin; Ran-Hong Yan; Frye, R.C.; Smith, P.R.; Low, Y.L.

Radio Frequency Integrated Circuits (RFIC) Symposium, 1998 IEEE 7-9 Jun 1998 Page(s):123 - 126

**4. "An extremely low noise, phase lockable, sapphire loaded cavity based microwave oscillator", Wong, C.; Miccioli, W.F.; Insana, D.M.; Drubin, C.A. Microwave Symposium Digest, 1999 IEEE MTT-S Int'l Vol 1, 1999 Ps:91-94**

**5. "Analysis on resonator coupling and its application to CMOS quadrature VCO at 8 GHz", Donghyun Baek; Taeksang Song; Sangsoo Ko; Euisik Yoon; Songcheol Hong (RFIC) Symposium, IEEE 8-10 June 2003 Ps: 85-88**

**6. "A 98 GHz voltage controlled oscillator in SiGe bipolar technology", Perndl, W.; Knapp, H.; Aufinger, K.; Meister, T.F.; Simburger, W.; Scholtz, A.L. Bipolar/BiCMOS Circuits and Technology Meeting. Proceedings of the 28-30 Sept. 2003 Ps: 67-69**

## INSPEC SEARCH

Search history:

No.	Database	Search term	Info added since	Results	
1	INZZ	Resonator AND (VCO OR voltage AND controlled AND oscillator) AND (high ADJ frequency OR high-frequency) AND (radar OR radio)	20060109	0	

## IP.COM SEARCH

**Search:** Resonator AND (VCO or (voltage AND controlled AND oscillator)) AND ((high w/3 frequency) or  
**query:** (high-frequency)) AND (radar or radio)

No new relevant document found.

## PROQUEST SEARCH

(Resonator AND (VCO or (voltage AND controlled AND oscillator))) AND (((high w/3 frequency) or  
(high-frequency))) AND ((radar or radio))

Database: Multiple databases...

Look for terms in: Citation and abstract

Publication type: All publication types

### Radio frequency circuits for tunable multi-band CMOS receivers for wireless LAN applications

Li, Zhenbiao. Proquest Dissertations And Theses 2004. 186 pages; [Ph.D. dissertation].United States -- Florida: University of Florida; 2004. Publication Number: AAT 3158832.

### Frequency synthesis for wireless transceivers

Pfaff, Dirk. Proquest Dissertations And Theses 2003. 180 pages; [Ph.D. dissertation].Switzerland: Eidgenoessische Technische Hochschule Zuerich (Switzerland); 2003. Publication Number: AAT C815955.

### Low-voltage switched-capacitor circuits for lowpass and bandpass DeltaSigma converters

Keskin, Mustafa. Proquest Dissertations And Theses 2002. 94 pages; [Ph.D. dissertation].United States -- Oregon: Oregon State University; 2002. Publication Number: AAT 3044334.

EAST P | 1075/591.wsp:41

File View Edit Tools Window Help

Drafts Pending Active

- L7: (1855) Resonator same (VCO or (voltage adj controlled adj oscillator))
- L8: (512162) (high adj frequency) or (high-frequency)
- L9: (811) L7 and L8
- L10: (89748) radar
- L11: (92) L9 and L10
- L12: (0) L11 and @pd<="20030314" and @pd>="20060109"
- L13: (349) ((342/175) or (342/70-73) or (342/69-103)).CCLS.
- L14: (8) L13 and @ad<="20030314" and @pd>="20060109"
- L15: (1) ((Resonator same (VCO or (voltage adj controlled adj oscillator))) and radar and ((high...))
- L16: (322) kato-takatoshi.inv.
- L17: (857) shin-toru.inv.
- L18: (72) nakamura-fuminori.inv.

Failed Saved

- S1: (1799) Resonator same (VCO or (voltage adj controlled adj oscillator))
- S2: (503401) (high adj frequency) or (high-frequency)
- S3: (779) S1 and S2
- S4: (88181) radar
- S5: (90) S3 and S4
- S6: (61) S5 and @ad<="20030314"
- S7: (1054) 342/175
- S8: (4286) ((342/175) or (342/70-73) or (342/89-103)).CCLS.
- S9: (2295) S8 and @ad<="20030314"
- S10: (12) (US-20010026195-S or US-20040041668-S).dd. or (US-6714089-S or US-6535072-S or US-6897...)
- S11: (5) S10 and dielectric

Favorites Tagged (15) UDC Queue Trash

Search Terms Total USPAT US-PGP EPO JPO Derivative

1	342/100	99			
2	342/101	68			
3	342/102	91			
4	342/103	126			
5	342/175	785			
6	342/70	929			
7	342/71	389			
8	342/72	225			
9	342/73	50			

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EAST - [10757591.wsp:4]

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Drafts

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- L7: (1855) Resonator same (VCO or (voltage adj controlled adj oscillator))
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- L14: (8) L13 and @adj<="20030314" and @pd>="20060109"
- L15: (1)((Resonator same (VCO or (voltage adj controlled adj oscillator))) and radar and ((high adj frequency) or (high-frequency))).clm

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Saved

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- S9: (2295) S8 and @adj<="20030314"
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- S11: (5) S10 and dielectric

Favorites

Tagged (15)

UDC

Queue

Trash

Search Bar: US-PGP/US/USPAT/US/EP/EP/DERVENT/IB4/DTDB

Search Results: ((Resonator same (VCO or (voltage adj controlled adj oscillator))) and radar and ((high adj frequency) or (high-frequency))).clm

*Interference Search*

ID	Document ID	Document No.	Pages	Title	Investor	Current Office
1	US 5034703	1991072	8	Frequency synthesizer	Schumacher	331/2

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